

L1: patent disclosed in IDS
 L2-L3: forward and backward citations of L1
 L4-L7: search for relevant US patents based on authors of Japanese patent applications whose abstracts are disclosed in IDS
 L8: patents obtained as results of PLUS search keyword search
 L9: patents from L8 that were published more than one year before priority date of application
 L10-L13: class/subclass searches **note: see notes for L10 below**
 L14-L19: limit class/subclass searches by relevant keywords
 note: see notes for L16-L19 below
 L20: first set of potentially relevant patents
 note: see notes for L20 below
 L21: backward citation of Yamada (US Patent 6,333,788)
 L22: backward citation of Fujisawa (US Patent 5,014,024)
 L23-L24: search for additional art by class/subclass, keywords and date
 L25: second set of potentially relevant patents

additional notes:

Due to printing problems, the search texts relating to the relevant L numbers are listed below:

L10: 358/2.1,1.9,2.99,3.09,3.1,3.11,3.13,3.14,3.15,3.16,3.24.ccls. or 358/3.26,3.27,3.28,405,450,462,465,531-534,537-538,540.ccls.
 L16: (358/2.1,1.9,2.99,3.09,3.1,3.11,3.13,3.14,3.15,3.16,3.24.ccls. or 358/3.26,3.27,3.28,405,450,462,465,531-534,537-538,540.ccls.) and halftone and (binariz\$5 or jaggy! or jagged\$5) and (text? or character?)
 L17: 382/173,176,182,199,221,254,266-269.ccls. and halftone and (binariz\$5 or jaggy! or jagged\$5) and (text? or character?)
 L18: ((358/2.1,1.9,2.99,3.09,3.1,3.11,3.13,3.14,3.15,3.16,3.24.ccls. or 358/3.26,3.27,3.28,405,450,462,465,531-534,537-538,540.ccls.) and halftone and (binariz\$5 or jaggy! or jagged\$5) and (text? or character?)) or (382/173,176,182,199,221,254,266-269.ccls. and halftone and (binariz\$5 or jaggy! or jagged\$5) and (text? or character?))
 L19: (((358/2.1,1.9,2.99,3.09,3.1,3.11,3.13,3.14,3.15,3.16,3.24.ccls. or 358/3.26,3.27,3.28,405,450,462,465,531-534,537-538,540.ccls.) and halftone and (binariz\$5 or jaggy! or jagged\$5) and (text? or character?)) or (382/173,176,182,199,221,254,266-269.ccls. and halftone and (binariz\$5 or jaggy! or jagged\$5) and (text? or character?))) and @ad<19980225
 L20: (US-5815287-\$ or US-5594555-\$ or US-5329380-\$ or US-5159470-\$ or US-4975786-\$ or US-6289136-\$ or US-6178010-\$ or US-6333788-\$ or US-6078405-\$ or US-6018399-\$ or US-6025929-\$ or US-4965678-\$ or US-4899227-\$ or US-5978554-\$ or US-5956470-\$ or US-5956425-\$ or US-5930404-\$ or US-5920646-\$ or US-5832141-\$ or US-5737453-\$ or

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US-6249353-\$ or US-6173073-\$ or US-5900948-\$ or US-5778105-\$ or
US-5649031-\$ or US-5644366-\$ or US-5515179-\$).did.

L Number	Hits	Search Text	DB	Time stamp
- 1	1	5,815,287.pn.	USPAT;	2003/09/25
- 2	4	("4547811" "4723173" "4893188" "4996603").PN.	US-PGPUB	10:05
- 3	2	5815287.URPN.	USPAT	2003/09/25
- 4	8	ishida-shinichi.in. and (image adjl process\$4)	USPAT;	09:31
- 5	14	morimoto.in. and (image adjl process\$4).ti.	US-PGPUB	2003/09/25
- 6	3	takenouchi-osamu.in.	USPAT;	11:03
- 7	60	yamada.in. and (image adjl process\$4).ti. and 358/\$.cccls. and @ay<=1999	US-PGPUB	2003/09/25
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- 8	150	("5930404" or "6160913" or "6078405" or "5920646" or "5337167" or "5828396" or "5555094" or "6018399" or "5500924" or "5978554").pn. ("4930007" or "5825377" or "6011878" or "6113210" or "5177795" or "5187495" or "5859948" or "6109720" or "6266156" or "5465157").pn. ("5627651" or "6233366" or "5265196" or "5652660" or "5649031" or "6111982" or "4447831" or "4903142" or "5274719" or "5317411").pn. ("5982983" or "6466335" or "5200831" or "5239390" or "5625460" or "5694224" or "5729632" or "5956157" or "4626902" or "4847689").pn. ("5412410" or "5956470" or "5696846" or "5799108" or "5905816" or "5530561" or "5351138" or "5408339" or "6243499" or "5287419").pn. ("5351312" or "4985779" or "5956425" or "5724441" or "6307962" or "5387985" or "5539866" or "5828782" or "5249067" or "5226098").pn. ("5408336" or "5553162" or "4547812" or "4553172" or "4943869" or "5181127" or "5631687" or "5809167" or "5867277" or "5963342").pn. ("6166751" or "6438274" or "6005680" or "5020119" or "5960121" or "6057941" or "6097364" or "5003496" or "5542031" or "5963714").pn. ("5648801" or "5703695" or "5754311" or "5214517" or "6166824" or "4920501" or "5657137" or "5893130" or "5917994" or "6119937").pn. ("5202772" or "5473446" or "5710827" or "5731884" or "5742405" or "5751470" or "5831657" or "6064495" or "6078317" or "6178260").pn. ("6271936" or "6438273" or "5454052" or "5568572" or "5473439" or "5557709" or "5610999" or "5721625" or "5737453" or "4538184").pn. ("4551768" or "5341228" or "5463472" or "5469268" or "5475497" or "5477305" or "5499111" or "5543941" or "5708518" or "5726772").pn. ("4958238" or "5184213" or "5259042" or "5301271" or "5689623" or "5774167" or "5930010" or "6256051" or "6507415" or "6525838").pn. ("6563957" or "5832141" or "4782399" or "5483361" or "5572638" or "5617485" or "6091512" or "4353628" or "4365275" or "4596993").pn. ("5014124" or "5177622" or "5196291" or "5271095" or "5296939" or "5337162" or "5351315" or "5424169" or "5436644" or "5642439").pn.	USPAT; US-PGPUB	2003/09/25 14:53
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